Agate Fossil Beds National Monument, Accuracy Assessment Metadata

Identification_Information:
  Citation:
    Citation_Information:
      Originator: U.S. Geological Survey
      Originator: Department of the Interior
      Publication_Date: 199805
      Title: Agate Fossil Beds National Monument Accuracy Assessment
      Geospatial_Data_Presentation_Form: database
      Series_Information:
        Series_Name: USGS-NPS Vegetation Mapping Program
        Issue_Identification: Agate Fossil Beds National Monument
      Publication_Information:
        Publication_Place: Denver, CO
        Publisher: USGS Biological Resources Division, Center for Biological Informatics
      Online_Linkage: <http://biology.usgs.gov/npsveg/agfo/index.html#accuracy_assessment_info>
  Description:
    Abstract: The accuracy assessment field work was performed in August and September, 1997 to verify the accuracy of the vegetation communities spatial data developed by the USGS-NPS Vegetation Mapping Program for Agate Fossil Beds National Monument. The data points were randomly distributed stratified according to vegetation association over the project area according to protocols developed by the Program. Points were located by GPS navigation and the community information was collected at the point, without knowledge of the attributes of the vegetation spatial data. The data points were compared to the attributes of the polygon in which they were contained. Attributes of the polygons or accuracy assessment points that did not match were changed during later analysis due to errors in the AA methodology or map attribution errors. A contingency table was completed from the final dataset.
    Purpose: To verify the accuracy of the mapped vegetation communities at Agate Fossil Beds National Monument.
  Time_Period_of_Content:
    Time_Period_Information:
      Single_Date/Time:
        Calendar_Date: 199708
    Currentness_Reference: Source of data collection
  Status:
    Progress: Complete
    Maintenance_and_Update_Frequency: None Planned
  Spatial_Domain:
    Bounding_Coordinates:
      West_Bounding_Coordinate: -103.8
      East_Bounding_Coordinate: -103.7
      North_Bounding_Coordinate: 42.44167
      South_Bounding_Coordinate: 42.40833
    Description_of_Geographic_Extent: Agate Fossil Beds National Monument, Nebraska, USA
  Keywords:
    Theme:
      Theme_Keyword_Thesaurus: none
      Theme_Keyword: National Park Service
      Theme_Keyword: U.S. Geological Service
      Theme_Keyword: Center for Biological Informatics
      Theme_Keyword: land cover
      Theme_Keyword: vegetation
      Theme_Keyword: alliance
      Theme_Keyword: association

Place:
Place_Keyword_Thesaurus: none
Place_Keyword: Agate Fossil Beds National Monument
Place_Keyword: Nebraska
Taxonomy:
Keywords/Taxon:
Taxonomic_Keyword_Thesaurus: none
Taxonomic_Keywords: Standardized National Vegetation Classification System
Taxonomic_Keywords: vegetation classification
Taxonomic_Keywords: alliance
Taxonomic_Keywords: community association
Taxonomic_Classification:
Taxon_Rank_Name: Kingdom
Taxon_Rank_Value: Plantae
Access_Constraints: None
Use_Constraints: Any person using the information presented here should fully understand the data collection and compilation procedures, as described in these metadata, before beginning analysis. The burden for determining fitness for use lies entirely with the user. For purposes of publication or dissemination, citations should be given to the U.S. Geological Survey and the National Park Service.
Point_of_Contact:
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Browse_Graphic:
Browse_Graphic_File_Name: http://biology.usgs.gov/npsveg/agfo/images/agfoaa.gif
Browse_Graphic_File_Description: Locations of accuracy assessment sites; low resolution for web browsing. 116 Kbyte.
Browse_Graphic_File_Type: GIF
Security_Information:
Security_Classification_System: None
Security_Classification: None
Security_Handling_Description: None
Native_Data_Set_Environment: UNIX-ARC/INFO

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report: The attributes for the accuracy assessment were recorded in the field in August, 1997. Vegetation associations were identified based on the field key and plant identification. If additional communities were found within a 50 meter radius of the plot center, they were recorded as well. During the analysis, it was concluded that some attributes were in error and changed to match the mapped attributes. This was done by examination of the aerial photographs under stereoscopic view. The attributes were in error due to 1) spatial error in the GPS derived coordinates (4-8 meters), 2) change of vegetation community due to temporal changes, or mis-identification of the community on the ground.
Logical_Consistency_Report: All attributes are codes that correspond to vegetation communities and have been checked for typographical and logical errors.
Completeness_Report: All points were collected and analyzed.
Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report: The points were located using a military-style GPS receiver (PLGR), which has a published accuracy of 4-8 meters.
Vertical_Positional_Accuracy:
Vertical_Positional_Accuracy_Report: Not applicable
Lineage:
Methodology:
Methodology_Type: Field
Methodology_Identifier:
Methodology_Keyword_Thesaurus: None
Methodology_Keyword: Accuracy Assessment
Methodology_Description: Data points were located by use of a PLGR GPS receiver by Wyoming Natural Heritage Program and Agate Fossil Beds National Monument personnel. Vegetation communities were identified on the basis of a dichotomous field key and plants species present.
Methodology:
Methodology_Type: Lab
Methodology_Identifier:
Methodology_Keyword_Thesaurus: None
Methodology_Keyword: Accuracy Assessment
Methodology_Description: Accuracy assessment points were compiled into an ARCINFO point coverage and intersected with the vegetation community coverage. The resulting INFO file was exported into a text file, imported into a spreadsheet, and the attributes from the accuracy assessment and the spatial data were compared. If the attributes did not compare, an analysis of the mismatch was made and either the AA attribute or the map attribute was changed based on identification of the community on the aerial photo.
Source_Information:
Source_Citation:
Citation_Information:
Originator: USGS-Biological resources Division
Originator: U.S. National Park
Originator: Depatment of the Interior
Publication_Date: 199411
Title: Accuracy Assessment Procedures, NBS/NPS Vegetation Mapping Program
Geospatial_Data_Presentation_Form: document
Publication_Information:
Publication_Place: Denver, CO
Publisher: USGS, Biological Resources Division, Center for Biological Informatics
Other_Citation_Details: Prepared by: Environmental Systems Research Institute, Inc. Redlands, CA and National Center of Geographic Information and Analysis, University of California, Santa Barbara, CA and The Nature Conservancy, Arlington, VA under contract rom U.S. Department of the Interior Biological Resources Division and National Park Service.
Type_of_Source_Media: electronic document
Source_Time_Period_of_Content:
Time_Period_Information:

Range_of_Dates/Times:
Beginning_Date: 199411
Ending_Date: Present
Source_Currentness_Reference: publication date
Source_Citation_Abbreviation: Accuracy Assessment Procedures Document
Source_Contribution: This document established the procedures and protocols for the accuracy assessment at Agate Fossil Beds National Monument.
Source_Information:
Source_Citation:
Citation_Information:
Originator: U.S. Geological Survey
Originator: Department of the Interior
Publication_Date: 199805
Title: Agate Fossil Beds National Monument Spatial Vegetation Data: Cover type / Association level of the National Vegetation Classification System
Geospatial_Data_Presentation_Form: document
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Agate Fossil Beds National Monument
Publication_Information:
Publication_Place: Denver, CO
Publisher: USGS, Biological Resources Division, Center for Biological Informatics
Other_Citation_Details: Created in large part by Environmental Systems Research Institute, Inc. Redlands, CA under contract rom USGS/BRD/CBI.
Type_of_Source_Media: Disc
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 199805
Source_Currentness_Reference: ground condition
Source_Citation_Abbreviation: Spatial data of vegetation communities for Agate Fossil Beds National Monument.
Source_Contribution: The vegetation spatial data were tested for accuracy with the AA data.
Process_Step:
Process_Description: The accuracy assessment field work was performed in August 1997 to verify the accuracy of the vegetation communities spatial data developed by the USGS-NPS Vegetation Mapping Program for Agate Fossil Beds National Monument. the data points were randomly distributed stratified according to vegetation association over the project area according to protocols developed by the Program. Points were located by GPS navigation and the community information was collected at the point, without knowledge of the attributes of the vegetation spatial data.
Source_Used_Citation_Abbreviation: Spatial data of vegetation communities for Agate Fossil Beds National Monument.
Source_Used_Citation_Abbreviation: Accuracy Assessment Procedure Document
Process_Date: 199708

Spatial_Data_Organization_Information:
Indirect_Spatial_Reference: Agate Fossil Beds National Monument is in Sioux County, Nebraska near the headwaters of the Niobrara River. The mound is located 20 miles south of Harrison, Nebrasaka.
Direct_Spatial_Reference_Method: Point
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Point

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator
Universal_Transverse_Mercator:
UTM_Zone_Number: 13
Transverse_Mercator:
Longitude_of_Central_Meridian: -105
Latitude_of_Projection_Origin: 0
False_Easting: 50000
False_Northing: 0
Scale_Factor_at_Central_Meridian: .9996
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: Coordinate Pair
Coordinate_Representation:
Abscissa_Resolution: 1
Ordinate_Resolution: 1
Planar_Distance_Units: meters
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodedic Reference System 80
Semi-major_Axis: 6378137
Denominator_of_Flattening_Ratio: 298.257

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview: The system is organized hierarchically to support conservation and resource stewardship applications across multiple scales. The upper levels of the hierarchy are based on the physical form or structure of the vegetation (physiognomy) and have been refined from the international standards developed by the United Nations Educational, Scientific, and Cultural Organization (UNESCO). The two most detailed levels of the hierearchy are based on the species composition of the existing vegetation (floristics) and reflect the phyto-sociological standards that were originally developed by European ecologists. The vegetation classification is continually advanced through the collection and analysis of new field data and will be greatly strengthened during the course of the NBS/NPS mapping efforts. National Park Service/Biological Resources Division Vegetation Inventory and Mapping Program for Agate Fossil Beds National Monument, Nebraska, Final Community Association Classification, May 1, 1998. Alliance/Community 01=Populus Deltoides - (Salix amygdaloides) / Salix exigua Woodland 02=Symphoricarpus occendentalis Shrubland 03=Salix exigua Shrubland 04=Stipa comata - Bouteloua gracilis - Carex filifolia Herbaceous Vegetation 05=Calamovilfa longifolia - Andropogon halli Herbaceous Vegetation 06=Upland Disturbance Herbaceous Vegetation 07=Annual-dominated Floodplain Disturbance Herbaceous Vegetation 08=Pascopyrum smithii Herbaceous Vegetation 09=Juncus balticus Herbaceous Vegetation 10=Typha latifolia Western Herbaceous Vegetation 11=Seeded Grassland Herbaceous Vegetation 12=Stipa comata - Bouteloua gracilis Gravel Herbaceous Vegetation 13=Schizachyrium scoparium - Bouteloua (curtipendula, gracilis) - Carex filifolia Herbaceous Vegetation 14=Stipa comata - Bouteloua gracilis - Carex filifolia Herbaceous Vegetation Mosiac 98 =Water Body 99=Urban/Built-Up/Maintained/Road/Road Mowed/Cut and Fill.
Entity_and_Attribute_Detail_Citation: Grossman, D. Et al. 1994. National Park Service Vegetation Mapping Project, Standardized National Vegetation Classificatrion System 209 pp.

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Resource_Description: FOLA Accuracy Assessment
Distribution_Liability: Although these data have been processed successfully on a computer system at the U.S. Geological Survey, no warranty expressed or implied is made regarding the accuracy or utility of the data on any other system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data. It is strongly recommended that these data are directly acquired from a U.S. Geological Survey server, and not indirectly through other sources which may have changed the data in some way. It is also strongly recommended that careful attention be paid to the contents of the metadata file associated with these data. The U.S. Geological Survey shall not be held liable for improper or incorrect use of the data described and/or contained herein.
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: HTML
Digital_Transfer_Option:
Online_Option:
Computer_Contact_Information:
Network_Address:
Network_Resource_Name: http://biology.usgs.gov/npsveg/agfo/index.html#accuracy_assessment_info
Fees: None

Metadata_Reference_Information:
Metadata_Date: 20011022
Metadata_Review_Date: 20060828
Metadata_Contact:
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Contact_Organization_Primary:
Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator
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Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1: Biological Data Profile, 1999
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Extensions:
Online_Linkage: http://biology.usgs.gov/fgdc.bio/bionwext.txt
Profile_Name: Biological Data Profile FGDC-STD-001.1-1999